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(54) SOLID ELECTROLYTE FUEL CELL MODULE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a fuel cell module using interconnectorless fuel cells capable of taking out a high-voltage, small current output.

side collector plates 39 of adjacent assembly, and thereby all fuel cell assemblies are put in series connections so that a DC power is generated.

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SOLUTION: A specified number of interconnectorless solid electrolyte fuel cells 10 are arranged in matrix form to form each assembly 12, and a plurality of such assemblies are accommodated in a power generation chamber 11 so that they perform power generation individually. Electric charges generated in air electrodes 103 of the fuel cells belonging to each assembly owing to the power generating action are led out to an air electrode side collector plate 36 situated over by an air electrode side collector member 33 installed between the air electrodes to make current collecting, while electric charges generated in fuel electrodes 101 of the fuel cells belonging to the assembly are collected by a common fuel electrode side collector plate 34. The air electrode side collector plates 36 of each assembly are put in series connection one by one with the fuel electrode

